This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/054,602	04/03/1998		DENNIS EDWARD SMITH	74311ACFR	2765	
1333	7590	11/21/2002				
PATENT L	EGAL S'	TAFF	EXAMINER			
EASTMAN KODAK COMPANY 343 STATE STREET				REDDICK,	REDDICK, MARIE L	
ROCHESTE	ROCHESTER, NY 14650-2201			ART UNIT	PAPER NUMBER	
			·	1713	22	
				DATE MAILED: 11/21/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	A3	٠.				
3	Applicati n No.	Applicant(s)					
	09/054,602	SMITH ET AL.					
Offic Action Summary	Examiner	Art Unit	_				
	Judy M. Reddick	1713					
Th MAILING DATE of this communication app Period f r Reply	pears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a ly within the statutory minimum of thi will apply and will expire SIX (6) MO a. cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 21.	<u>August 2002</u> .						
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.						
3) Since this application is in condition for allow closed in accordance with the practice under	ance except for formal ma Ex parte Quayle, 1935 C	atters, prosecution as to the merits is .D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-5,11-23 and 25</u> is/are pending in the	he application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,11-23 and 25</u> is/are rejected.	☑ Claim(s) <u>1-5,11-23 and 25</u> is/are rejected.						
7) Claim(s) <u>1,3,5,12,18 and 21</u> is/are objected to	Claim(s) <u>1,3,5,12,18 and 21</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine		the Eveniner					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the							
11) The proposed drawing correction filed on							
If approved, corrected drawings are required in re							
12) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority document							
2. Certified copies of the priority document							
 3. Copies of the certified copies of the prio application from the International But See the attached detailed Office action for a list 	ıreau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domest							
a) The translation of the foreign language pro	ovisional application has l	peen received.					
15) ☐ Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C	. 99 120 and/or 121.					
Attachment(s)	A)	Cumman (DTO 442) Dance No(c)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)					

Application/Control Number: 09/054,602

Art Unit: 1713

DETAILED ACTION

Response to Arguments

1. After further consideration and an exhaustive deliberation coupled with appellant's persuasive arguments, the rejections based on McNeil, Utsumi et al and Kamiyama et al are herein withdrawn, with the understanding that the proposed amendment to claims 1, 3, 12, 18 and 21 per paper no. 16, 01/29/02, denied entry, is repeated in response to this Office Action along with use of the singular form of "salt". However, in view of the newly discovered, substantive 112, 2nd paragraph issue(s), PROSECUTION IS HEREBY REOPENED. The substantive 112, 2nd paragraph issue(s) and previously raised claim Objections are set forth below.

Claim Objections

2. Claims 1, 3, 5, 12, 18 and 21 are objected to because of the following informalities: a) In claim 1 @ line 12, "by weight" should be inserted after "20%" so as to engender claim language clarity; b) In claim 3 @ lines 2 and 3, "an acrylic acid and a methacrylic acid" should read "acrylic acid and methacrylic acid" so as to engender claim language clarity; c) In claim 5, @ line 3, "by weight" should be inserted after "50%" so as to engender claim language clarity; d) In claim 12 @ line 1, claim 18 @ line 1 and claim 21 @ line 1, "6", "18" and "20", respectively, should be deleted and "11", "17" and "20", respectively, should be inserted in their stead so as to engender proper claim dependency; Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-5, 11-23 and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Application/Control Number: 09/054,602

Art Unit: 1713

A) The recit d "monomer B is a water-insoluble ethylenically unsaturated monomer" per at least claim 1 constitutes indefinite subject matter as p r the metes and bounds of such engend r an indeterminacy in scope, especially since the monomers recited in dependent claims 13, 22 and 25 and definitivee of "monomer B" include "water-soluble" monomers.

- B) The recited "styrenecarboxylic acid" per claim 2 constitutes indefinite subject matter as per it not being readily ascertainable as to the exact meaning of said compoun(s), i.e., does applicant intend a mixture of styrene/carboxylic acid or "styrene monomer" and "carboxylic acid monomer", in the alternative.
- C) The recited "wherein monomer B is--" per claims 13, 22 and 25 constitutes indefinite subject matter as per some of the recited monomer species such as acrylonitrile, methacrylonitrile, acrylamide, methacrylamide, vinyl chloride, hydroxyethyl acrylate, etc. do not further limit the antecedently recited "water-insoluble ethylenically unsaturated monomer" per claim 1.
- D) The recited "—selected from insoluble metal salts, insoluble metal oxides, oxides,---and resinous polymers—" per claim 22 constitutes indefinite subject matter as per a) the use of improper Markush language, "selected from the group consisting of" is suggested. B) it is not apparent how "oxides" differentiates over "insoluble metal oxides" and c) the metes and bounds of "resinous polymers" engenders and indeterminacy in scope.

Allowable Subject Matter

5. Claims 1-5, 11-23 and 25 are deemed allowable over the prior art of record, McNeil, Utsumi et al and Kamiyama et al, meritorious of the closest prior art, as per said art neither anticipates nor renders obvious the meticulously defined combination of water-soluble/water-insoluble monomers characterized as having a high carboxylic acid content coupled with a specifically particled sized water-insoluble stabilizer and with a specific amount of water-soluble inorganic salt-governed process, as claimed. One having ordinary skill in the art would not have been end wed with any motivation to extrapolate the specifically claimed combination from any of the prior art, alone or in combination, with any reasonable expectation of success.

Application/Control Number: 09/054,602

Art Unit: 1713

Conclusion

6. Note the attached FORM PTOL 892 for additional prior art cited as of being illustrative f the general state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judy M. Reddick whose telephone number is (703)308-4346. The examiner can normally be reached on Monday-Friday, 6:30 a.m.-3:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (703)308-2450. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9310 for regular communications and (703)892-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-8183.

J. M. Redduck Judy M. Reddick Primary Examiner Art Unit 1713

JMR (TYML November 15, 2002